VERIDIAN

Veridian Engineering

AUTOMOTIVE TRANSPORTATION CENTER

Consortium Management

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Agenda

- Veridian/ERIM experiences with successful consortium management
- Suggested organizational structure
- Draft member agreement (handout)

Transportation Sector Customers

- Government Clients:
  - U.S. Department of Transportation
    - National Highway Traffic Safety Administration
    - Federal Highway Administration
    - Federal Motor Carrier Safety Administration
    - Research and Special Projects Administration
  - State DOT's and Local Public Safety
  - U.S. Department of Defense
- Commercial Clients:
  - Goodyear and other Tire OEM's
  - Child Restraint Manufacturers
  - OEM's (Volvo, Ford, Toyota, Subaru etc)
  - Fleet managers (Exxon, AirIQ, Lucent)
  - Recreational Vehicle Industry
  - Automotive Suppliers

United States Department of Transportation

NHTSA People Saving People http://www.nhtsa.dot.gov

Minnesota Department of Transportation

NYSERDA

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

Ford

Toyota, Peru

50 YEARS OF SERVING OTHERS Rural/Metro CORPORATION

GOODYEAR

EXXON

VOLVO

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Veridian's Transportation Sector Mission

To research, demonstrate, and deploy high value-time critical systems that intelligently collect, process, and distribute information to the vehicle operator (public, private, or commercial) and to service providers (DOT's, law enforcement) to enhance transportation safety.

Human Factors Research & Analysis

On-Board System Development

Vehicle Prototyping

Extensive Test Facilities

Vehicle Controls & Display Development & Testing

Roadside Inspection Equipment

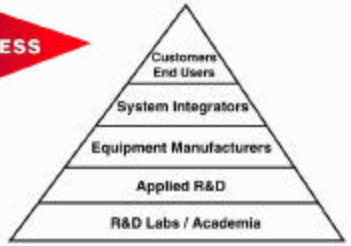
Plasma-Based Processing of Materials for Motor Vehicle Components and Manufacturing Applications

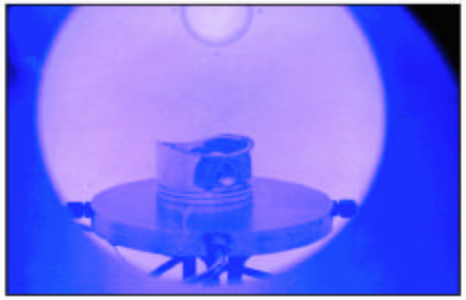
Program Goals

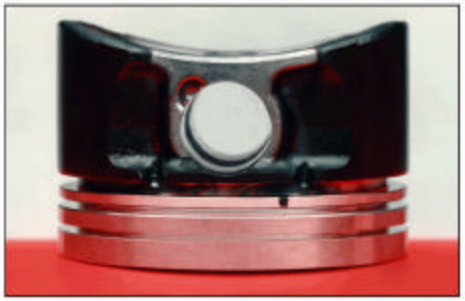
- 10X Increased Die Life
- 10X Increased Tool Life
- 10% Reduction of Powertrain Mfg. Cost
- 25% Less Chrome Plating Waste
- 3X Increased Brass Life

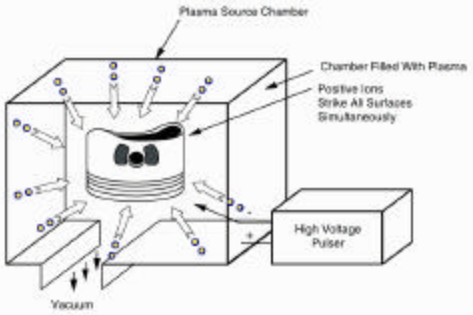
PATHWAY TO SUCCESS

Commercialization Structure









Submitted to the Advanced Technology Program
Focused Program 95-02
Motor Vehicle Manufacturing Technology
National Institute of Standards & Technology
U.S. Department of Commerce
11 April 1995

Vertically Integrated Team

General Motors
Asea Brown Boveri
Litton
Nano Instruments
Diversified Technologies
Ionex
PVI
Empire Hard Chrome
A.O. Smith
Harley-Davidson
Kwikset
Los Alamos National Lab
University of Wisconsin
ERIM

Participants Added Since Program Began

Boeing Defense & Space Group
DuPont
4th State

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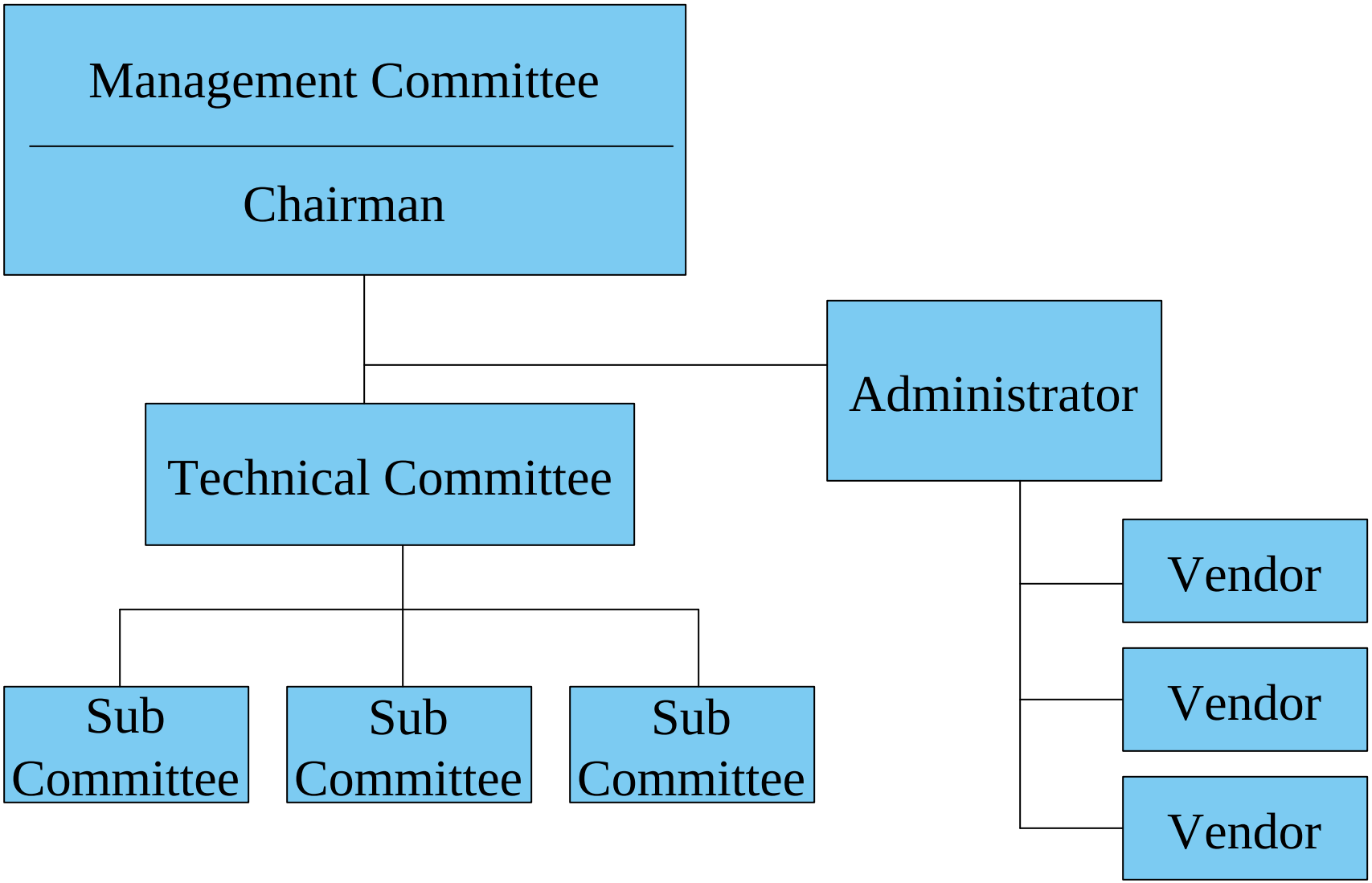
Suggested Organizational Structure



Organization Roles/Responsibilities

Management Committee

- One Senior individual from each full member
- Committee provides:
  - Program schedule and review
  - Fiscal oversight
  - Conflict resolution
- Meets 2 times per year unless otherwise required (4 hours)
- Committee is empowered to resolve intellectual property issues.

Organization Roles/Responsibilities

Technical Committee

- Two-five technical individuals from each full member
- Committee provides:
  - Technical oversight
  - Directs and reviews technical scope
  - Sets technical goals
  - Resolves technical issues
- Meets 4 times per year (8-16 hours)

Organization Roles/Responsibilities

Administrator

- Core team (part time)
- Manages:
  - Consortium meeting
  - Financial issues
  - Technical vendors (direct contract)
  - Data archive during program
  - Technical support

Emulates best practices from past consortium programs.